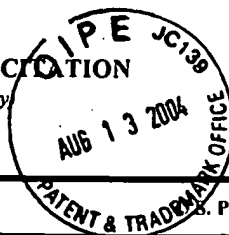


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Applicant(s)

Zazopoulos, Emmanuel

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PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/NN/	A1	US 4,452,775	06.05.84	Syntex (USA) Inc.	A61K	9/26	
/NN/	A2	US 5,039,660	08.13.91	Endocon Inc.	C07K	17/08	
/NN/	A3	US 3,854,480	12.17.74	Alza Corporation	A61M	5/00	
/NN/	A4	US 6,361,974	03.26.02	Diversa Corporation	C12P	21/06	
/NN/	A5	US 6,372,497	04.16.02	Maxygen Inc.	C12N	15/00	
/NN/	A6	US 4,946,778	08.07.90	Genex Corporation	C12N	15/00	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
/NN/	B1	WO 01/34816	05.17.01	WO	C12N	15/76		
/NN/	B2	WO 03/062458	07.31.03	WO	C12Q	1/02		
/NN/	B3	CA 2,352,451	07.24.01	CA	C12Q	1/68		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/NN/	C1	Sakuda et al., Tetrahedron Letters, (1995) vol.36, no.16, pp.2777-2780 "Linearmycin A, a novel linear polyene antibiotic"
/NN/	C2	Sakuda et al., J Chem. Soc. Perk. Trans., (1996) 1, pp.2315-2319 "Novel linear polyene antibiotics: linearmycins"

EXAMINER

/Nashaat Nashed/ (11/14/2007)

DATE CONSIDERED

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		January 21, 2004		

*EXAMINER INITIAL	OTHER DOCUMENTS	(Including Author, Title, Date, Pertinent Pages, Etc.)
/NN/	C15	McDaniel et al., Proc. Natl. Acad. Sci. USA, (1999) vol.96, pp.18646-18651 Multiple genetic modifications of the erythromycin polyketide synthase to produce a library of novel "unnatural" natural products.
	C16	Reid et al., Biochemistry, (2003) vol.42, no.1, pp.72-79 "Abstract A model of structure and catalysis for ketoreductase domains in modular polyketide synthases"
	C17	Oppermann, Udo CT et al., Biochemistry, (1997) vol.36(1), pp.34-40 "Active site directed mutagenesis of 3/17-hydroxysteroid dehydrogenase establishes differential effects on short-chain dehydrogenase/reductase reactions"
	C18	Zoller et al., Methods in Enzymol, (1983) vol.100, p.468-500 "Oligonucleotide-directed mutagenesis of DNA fragments cloned into M13 vectors"
	C19	Dalbie-McFarland G et al., Proc. Natl. Acad. Sci. USA (1982) vol.79, no.21, pp. 6409-13 "Oligonucleotide-directed mutagenesis as a general and powerful method for studies of protein function"
	C20	Oliynyk et al., Chem. Biol., (1996) vol.3 no.10, pp.833-839 "A hybrid modular polyketide synthase obtained by domain swapping"
	C21	Hans et al., J. Am. Chem. Soc., (2003) vol.125 no.18, pp.5366-74 "Mechanistic analysis of acyl transferase domain exchange in polyketide synthase modules"
	C22	Kao et al., Science, (1994) vol.265(5171), pp.509-512 "Abstract Engineered biosynthesis of a complete macrolactone in a heterologous host"
	C23	Oh, SH; Chater KF, Journal of Bacteriology, (1997) vol.179, no.1, pp.122-127 "Denaturation of circular or linear DNA facilitates targeted integrative transformation of Streptomyces coelicolor A3(2): possible relevance to other organisms"
	C24	Arrowsmith et al., Mol. Gen. Genet., (1992) vol.234, no.2, pp.254-264 "Characterisation of actI-homologous DNA encoding polyketide synthase genes from the monensin producer Streptomyces cinnamomensis"
	C25	Paradkar et al., Appl. Environ. Microbiol., (2001) vol.67, no.5, pp.2292-2297 "Applications of gene replacement technology to Streptomyces clavuligerus strain development for clavulanic acid production"
 /NN/	C26	Blanco et al., Mol. Gen. Genet., (2000) vol.262, no.6, pp.991-1000 "Characterization of two glycosyltransferases involved in early glycosylation steps during biosynthesis of the antitumor polyketide mithramycin by Streptomyces argillaceus"

EXAMINER	DATE CONSIDERED
/Nashaat Nashed/ (11/14/2007)	

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Group Art Unit

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/NN/

C27

Chen et al., Gene, (2001) vol.263, no.1-2, pp.255-64
"The Strptomyces venezuelae pika V gene contains a transcription unit essential for expression of enzymes involved in glycosylation of narbonolide and 10-deoxymethynolide"

C28

Schaffner CP, Mavrolide Antibiotics: Chemistry, biology and practice, S. Omura, ed. Academic Press (1984) p.491-92
"Polyene microlides in clinical practice"

C29

Schaffner CP and Gordon HW, Proc. Natl. Acad. Sci. USA (1968) vol.61, no.1, p.36
"The hypocholesterolemic activity of orally administered polyene macrolides"

C30

Carrillo H et al., SIAM J. Applied Math., (1988) vol.48, no.5, pp.1073-1082
"The multiple sequence alignment problem in biology"

C31

Gluzman Y, Cell, (1981) vol.23, no.1, pp.175-82
"SV40-transformed simian cells support the replication of early SV40 mutants"

C32

Leung DW et al., Technique, (1989) vol.1, pp.11-15
"A method for random mutagenesis of a defined DNA segment using a modified polymerase chain reaction"

C33

Caldwell RC et al., PCR Methods Applic., (1992) vol.2, pp.28-33
"Randomization of genes by PCR mutagenesis"

C34

Reidharr-Olson, JF et al., Science, (1988) vol.241 (4861), pp.53-57
"Combinatorial cassette mutagenesis as a probe of the informational content of protein sequences"

C35

Kholer et al., Nature, (1975) vol.256, pp.495-497
"Continuous cultures of fused cells secreting antibody of predefined specificity"

C36

Kozbor et al., Immunology Today, (1983) vol.4, no.3, pp.72-79
"The production of monoclonal antibodies from human lymphocytes"

C37

Cole et al., Monoclonal Antibodies and Cancer Therapy, Alan R. Liss Inc., (1985) pp.77-96
"The EBV-hybridoma technique and its application to human lung cancer"

/NN/

C38

Wood T., Methods in Enzymology, (1988) vol.160, pp.87-116
"Methods for measuring Cellulase Activities"

EXAMINER

/Nashaat Nashed/ (11/14/2007)

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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January 21, 2004

Group Art Unit

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/NN/

C39

Katz, Chem. Rev., (1997) vol.97, no.7, pp.2557-2575
"Manipulation of Modular Polyketide Synthases"

C40

Zazopoulos et al., Nature Biotechnology, (2003) vol.21, pp.187-190
"A genomics-guided approach for discovering and expressing cryptic metabolic pathways"

C41

Grote R., Zeeck A., J. Antibiot., (1988) vol.41, pp.1178-95
"Colabomycin A from Streptomyces griseoflavus Tue 2880"

C42

Osada et al., J. Antibiot., (1991) vol.44, pp.1463-6
"Enopeptin-A from Streptomyces griseus"

C43

He H et al., J. Antibiot., (2000) vol.53, no.2, pp.191-195
"Isolation and structural elucidation of AC326-alpha, a new member of the moenomycin group"

C44

Wong GK et al., J Antibiotics, (1998) vol.51, no.5, pp.487-491
"Antifungal activities of rapamycin and its derivatives, prolyrapamycin, 32-desmethyrapamycin, and 32-desmethoxyrapamycin"

C45

Arikan S et al., Antimicrobial Agents and Chemotherapy, (2003) vol.47, no.8, pp.2640-2643
"Comparison of two methods and three end points in determination of in vitro activity of micafungin against Aspergillus spp."

C46

Dubois N et al., Microbiology, (1998) vol.144, pp.2299-2310
"Antifungal activities of rapamycin and its derivatives, prolyrapamycin, 32-desmethyrapamycin, and 32-desmethoxyrapamycin"

C47

Fisher H. et al., Proceedings of the Society for Experimental Biology and Medicine, (1974) vol.145, pp.836-839
"Effect of candidin on plasma cholesterol and avian atherosclerosis."

C48

Pagliano FM, Arch Sci Med (Torino), (1979) vol.136, pp.303-308
"Correction of hyperdyslipidemia using polyene-structure substances. Controlled clinical trial"

C49

Barbaro A. et al., Archivio per Scienze Mediche, (1980) vol.137, pp.211-216
"Action of a polyene macrolide on hyperdislipidaemic disorders"

/NN/

C50

Singhal AK et al, Lipids, (1981) vol.16, p.423-426
"C.P. Effect of candidacin on cholesterol and bile acid metabolism in the rat"

EXAMINER

/Nashaat Nashed/ (11/14/2007)

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Filing Date

January 21, 2004

Group Art Unit

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/NN/

C51

Staprans I et al., Arteriosclerosis, Thrombosis and Vascular Biology, (1998) vol.18, pp.977-983
"Oxidized cholesterol in the diet accelerates the development of aortic atherosclerosis in cholesterol-fed rabbits"

C52

Thiery J et al., Arteriosclerosis, Thrombosis and Vascular Biology, (1995) vol.15, pp.1181-1188
"Low atherosclerotic response of a strain of rabbits to diet-induced hypercholesterolemia"

C53

Chen S. et al, Chemistry & Biology, (2003) vol.10, pp.1065-1076
"Organizational and mutational analysis of a complete FR-008/Candididin gene cluster encoding a structurally related polyene complex"

C54

Micklewright P.F., Trigger D.J., J. Pharm. Pharmac., (1974) vol.26 suppl., pp.108P-109P
"The effect of candididin on exogenous cholesterol absorption in small laboratory animals"

C55

Worthen, D.R. et al., Drug Development and Industrial Pharmacy, (2001) vol.27, no.4, pp.277-286
"Methods for the recovery and purification of polyene antifungals"

/NN/

C56

Staunton, J., Weissman, K.J., Nat. Prod. Rep., (2001) vol.18, pp.380-416
"Polyene biosynthesis: a millennium review"

EXAMINER

/Nashaat Nashed/ (11/14/2007)

DATE CONSIDERED

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Docket Number (Optional)

3004-10US

Application Number

USSN 10/760,494

Applicant(s)

Zazopoulos et al.

Filing Date

January 21, 2004

Group Art Unit

1632

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/NN/	C1	Yu T. et al., PNAS (2002) vol. 99, no. 12, pp. 7968-7973 "The biosynthetic gene cluster of the maytansinoid antitumor agent ansamitocin from <i>Actinosynnema pretiosum</i> "
/NN/	C2	Ichinose K et al., Microbiology (2003) vol 149, pp. 1633-1645 "Cloning, sequencing and heterologous expression of the medermycin biosynthetic gene cluster of <i>Streptomyces</i> sp. AM-7161: towards comparative analysis of the benzoisochromanquinone gene clusters"

EXAMINER

/Nashaat Nashed/ (11/14/2007)

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Zazopoulos et al.

Filing Date

January 21, 2004

Group Art Unit

1632

*EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/NN/

C3

Miyamura S. et al., The Journal of antibiotics, vol 26, no. 9, pp. 479-484
"Antibiotic 5879 produced by *Streptomyces aizunensis*, identical with Bicyclomycin"

EXAMINER

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